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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/646,484	05/08/96	MOON	B 27951-00023

LM21/1214

EXAMINER

THOMAS L. CRISMAN  
JENKENS AND GILCHRIST  
3200 FOUNTAIN PLACE  
1445 ROSS AVENUE  
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THLANG, E

ART UNIT  PAPER NUMBER

2781

DATE MAILED: 12/14/98

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

LM21/1214

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DALLAS TX 75202-2799

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/646,484	05/08/96	010	THILANG, E	2781 12/14/96
First Named Applicant	MOON,		35 USC 154(b) term ext. =	0 Days.

TITLE OF INVENTION METHOD AND APPARATUS FOR PROVIDING SINGLE CHANNEL COMMUNICATIONS  
(AS AMENDED)

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
2 27951-00023	095-286.000	M71	UTILITY	NO	\$1210.00	03/15/97

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.  
PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS  
APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number.

Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

PATENT AND TRADEMARK OFFICE COPY

<b>Notice of Allowability</b>	Application No. <b>08/646,484</b>	Applicant(s) <b>Moon, Billy G.</b>
	Examiner <b>Eric S. Thlang</b>	Group Art Unit <b>2781</b>

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

- This communication is responsive to After -Final Amendment filed November 25, 1998.
- The allowed claim(s) is/are 11-15, 17-21, and now as claims 1-10.
- The drawings filed on \_\_\_\_\_ are acceptable.
- Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- All    Some\*    None   of the CERTIFIED copies of the priority documents have been  
 received.  
 received in Application No. (Series Code/Serial Number) \_\_\_\_\_.  
 received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \*Certified copies not received: \_\_\_\_\_.
- Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

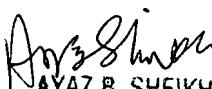
A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
- Applicant MUST submit NEW FORMAL DRAWINGS
- because the originally filed drawings were declared by applicant to be informal.  
 including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. 19.  
 including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.  
 including changes required by the attached Examiner's Amendment/Comment.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.
- Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

Attachment(s)

- Notice of References Cited, PTO-892  
 Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_  
 Notice of Draftsperson's Patent Drawing Review, PTO-948  
 Notice of Informal Patent Application, PTO-152  
 Interview Summary, PTO-413  
 Examiner's Amendment/Comment  
 Examiner's Comment Regarding Requirement for Deposit of Biological Material  
 Examiner's Statement of Reasons for Allowance

  
**AYAZ R. SHEIKH**  
 SUPERVISORY PATENT EXAMINER  
 GROUP 2700

## EXAMINER'S AMENDMENT

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions are unacceptable to an applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.
2. Authorization for this Examiner's Amendment was given in a telephone interview with Applicants's attorney, Mr. Brian D. Walker, Reg. No. 37,751 on December 10, 1998.

3. The application has been amended as follow:

I. Claim 17 is now depending upon independent claim 11.

### *Allowable Subject Matter*

4. The following is an Examiner's statement of reasons for the indication of allowable subject matter:

The prior art of record does not teach the limitations of the independent claim in combination with other elements. Especially, prior art does not teach a control circuit within a UART (Universal Asynchronous Receiver-Transmitter), capable of operating in both full duplex and half duplex mode for providing single channel communications, comprising a receiver control circuitry for enabling and disabling

the receiver in response to the indication of a full duplex mode operation by the processing means. None of prior art of record does not teach the processing means which capable of determining and detecting whether a UART is operating in a full duplex mode of operation or whether a receiver enables the flag has been set.

### *Conclusion*

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric S. Thlang whose telephone number is (703) 305-4004. The examiner can normally be reached on Monday - Thursday from 7:00 a.m. to 4:30 p.m. The examiner can also be reached on alternate Fridays during the same hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh, can be reached on (703) 305-9648. The fax phone number for this Group is (703) 308-9051 or (703) 308-9052.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [\[Ayza.Sheikh@uspto.gov\]](mailto:Ayza.Sheikh@uspto.gov).

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Serial Number: 08/646,484  
Art Unit: 2781

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

*ayaz*  
EST

December 10, 1998

*Ayaz R. Sheikh*  
AYAZ R. SHEIKH  
SUPERVISORY PATENT EXAMINER  
GROUP 2700